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Practice Quiz - Watson Studio

Practice Quiz • 30 min

Practice Quiz - Watson Studio

Total points 10

1. Fill in the blank: In Watson Studio, a _____ is how you organize your resources to achieve a particular goal. Resources can include data, collaborators, and analytic assets like notebooks and models.

1 / 1 point

- Job
- Notebook
- Project
- Asset

Correct

2. Fill in the blank: It's a best practice to remove or replace _____ before publishing to GitHub.

1 / 1 point

- Markdown text

GitHub - Program...

[Back](#)

Practice Quiz - Watson Studio

Practice Quiz • 30 min

2. Fill in the blank: It's a best practice to remove or replace _____ before publishing to GitHub.

1 / 1 point

- Markdown text
- Credentials
- Code cells
- Charts

 **Correct**

3. Which of the following do you need to create in order to publish a notebook to your GitHub repository?

1 / 1 point

- Apps
- Profile
- Access token
- Login credential

GitHub - Program...

[Back](#)

Practice Quiz - Watson Studio

Practice Quiz • 30 min

4. Fill in the blank: If you'd like to schedule a notebook in Watson Studio to run at a different time you can create a(n) _____.

1 / 1 point

- Asset
- Markdown cell
- API
- Job

 Correct

5. Fill in the blank: On the environments tab you can define the _____.

1 / 1 point

- Hardware size.
- Software configuration.
- Runtime configuration for notebook editor.
- Runtime configuration for flow editor.
- All of the above.

[Back](#) Practice Quiz - Watson Studio

Practice Quiz • 30 min

6. Fill in the blank: When sharing a read only version of a notebook, you can choose to share _____.

1 / 1 point

- Only text and output.
- All content, excluding sensitive code cells.
- All content including code.
- A permalink.
- All of the above.

Correct

7. Fill in the blank: When working in a Jupyter Notebook, before returning to a project, it's important to _____.

1 / 1 point

- Insert cells.
- Insert to code.
- Save your notebook.
- Run cells.

Correct

[Back](#) Practice Quiz - Watson Studio

Practice Quiz • 30 min

8. Fill in the blank: Before running a notebook, it's a best practice to _____ to describe what the notebook does.

1/1 point

- Insert a cell at the top of the notebook.
- Delete notebook cells.
- Insert a cell at the bottom of the notebook.
- Refresh your page.

 Correct

9. Fill in the blank: In the _____ tab you can define the hardware size and software configuration for the runtime associated with Watson Studio tools such as notebooks.

1/1 point

- Settings
- Environments
- Assets
- Overview

 Correct

[Back](#)

Practice Quiz - Watson Studio

Practice Quiz • 30 min

- Settings
- Environments
- Assets
- Overview

Correct

10. Fill in the blank: IBM Cloud uses _____ as a way for you to organize your account resources in customizable groupings so that you can quickly assign users access to more than one resource at a time.

1 / 1 point

- Services
- Catalogs
- Resource groups
- Projects

Correct

In this lesson...

- Watson Knowledge Catalog
- Data Refinery
- Modeler Flows in Watson Studio
- IBM SPSS Statistics and IBM SPSS Modeler
- Model deployment strategies
- AutoAI and Watson OpenScale

IBM Watson Knowledge Catalog

Svetlana Levitan

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Most organizations have huge amounts of data
stored in many forms in various locations

Fully Integrated Visual Tools

Execution Environments

Data Asset Management

Data Management

Data Integration and Transformation

Data Visualization

Model Building

Model Deployment

Model Monitoring and Assessment

Code Asset Management

Development Environments

Main features

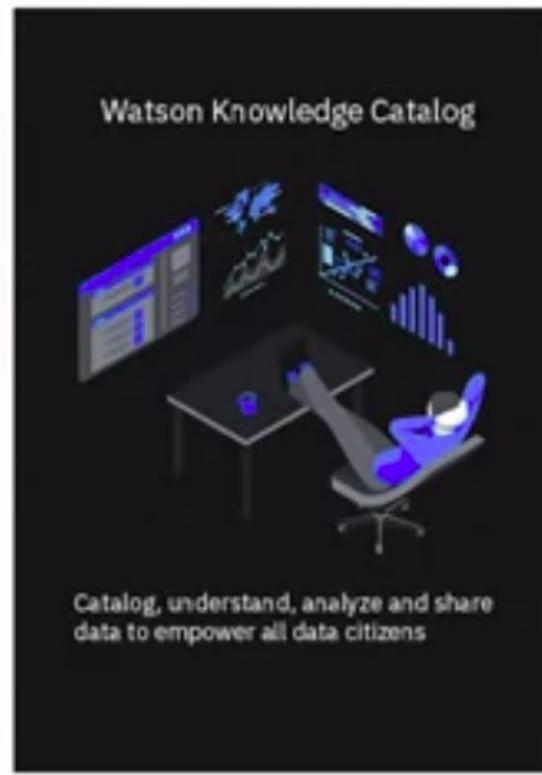
- Find data
- Catalog data
- Govern data
- Understand data
- Power data science
- Prepare data
- Connect data



Watson Knowledge Catalog protects data from misuse and enables the sharing of assets with automated, dynamic masking of sensitive data elements

Main features

- Find data
- Catalog data
- Govern data
- Understand data
- Power data science
- Prepare data
- Connect data
- Deploy anywhere



Watson Knowledge Catalog

Catalog, understand, analyze and share
data to empower all data citizens

New catalog

Details

Name*

Transportation Catalog

Description

- IBM Cloudant**
- IBM Db2 on Cloud**
- IBM Db2 Warehouse on Cloud**
- Amazon Web Services**
- Microsoft Azure**
- Twitter**
- PDF**



Cancel

Create

Simplifying Data Preparation

- Cleansing, Shaping, and Preparing data take up a lot of Data Scientist's time
- These tasks come in the way of the more enjoyable parts of Data Science: analyzing data and building ML models
- Data sets are typically not readily consumable. They need to be refined and cleansed
- IBM Data Refinery simplifies these tasks with an interactive visual interface that enables self-service data preparation
- Data Refinery comes with Watson Studio – on Public/Private Cloud and Desktop

Press **Esc** to exit full screen

SPSS Modeler Flows in Watson Studio

Svetlana Levitan

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Execution Environments

Data Asset Management

Data Management

Data Integration and Transformation

Data Visualization

Model Building

Model Deployment

Model Monitoring and Assessment

Code Asset Management

Development Environments

Modeler flows include some data management capabilities, as well as tools for data preparation, visualization, and model building.

An example flow



SPSS Modeler Flows in Watson Studio

Svetlana Levitan

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Execution Environments

Data Asset Management

Data Management

Data Integration
and Transformation

Data Visualization

Model Building

Model Deployment

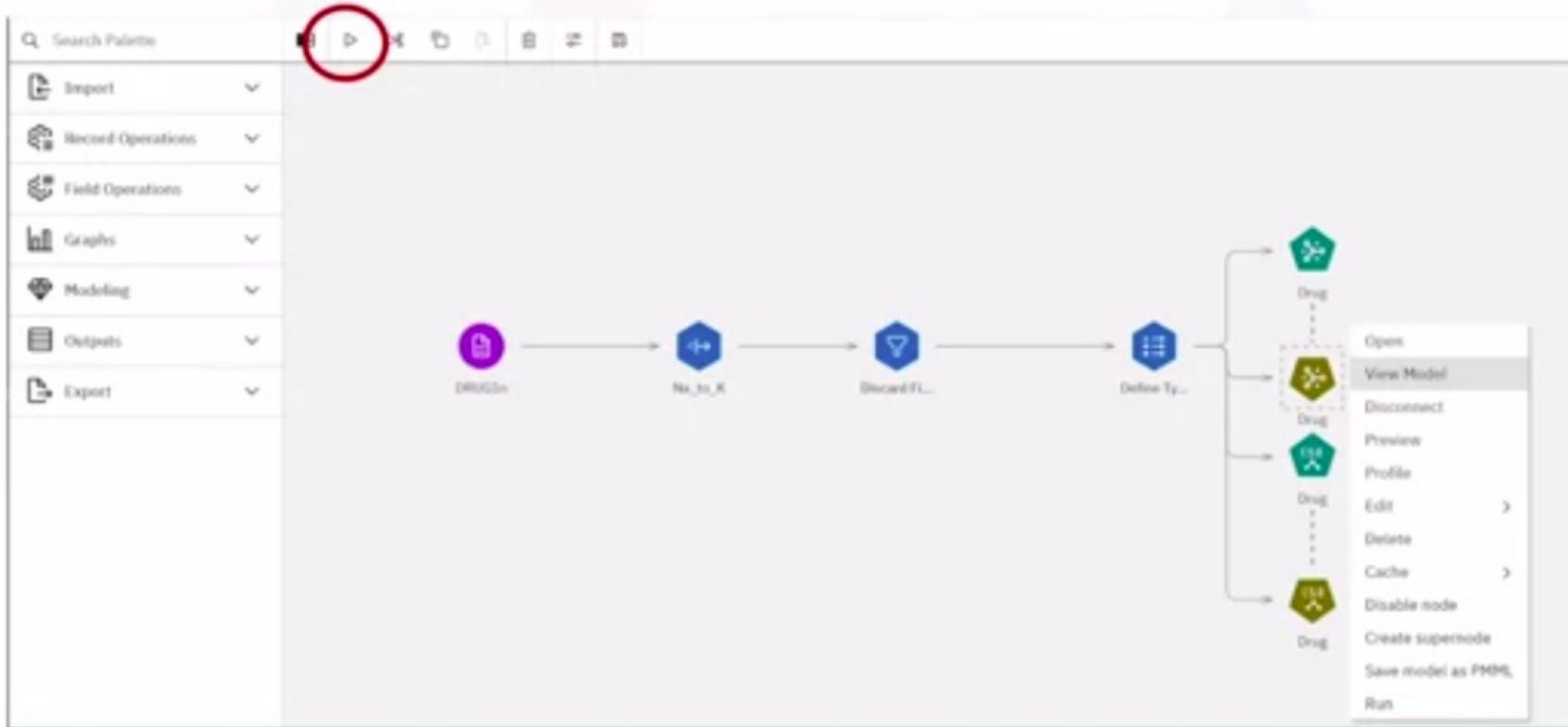
Model Monitoring
and Assessment

Code Asset Management

Development Environments

Modeler flows include some data management capabilities, as well as tools for data preparation, visualization, and model building.

SPSS Modeler Flows



Examining decision tree model

C5.0 Tree Model ⓘ

Model Information ⓘ
TARGET : DRUG

MODEL VIEWER

Model Information

Feature Importance

Top Decision Rules

Tree Diagram

Target Field	Drug
Model Type	Multi-Class Decision Tree
Algorithm Name	C5.0
Number of Features	4
Tree Depth	4
Number of Nodes	10

Feature Importance ⓘ
TARGET : DRUG

Top Decision Rules ⓘ
TARGET : DRUG

Rule ID	Rule	Rule category	Record count	Record percentage	Rule confidence
9	Na_to_K > 14.82855	drugY	93	45.000	95.833
8	Na_to_K <= 14.82855 and BP = NORMAL	drugX	36	18.000	90.344
3	Na_to_K <= 14.82855 and BP = HIGH and Age < 50.0	drugA	23	11.500	85.714
6	Na_to_K <= 14.82855 and BP = LOW and Cholesterol = NORMAL	drugX	18	9.000	82.609
4	Na_to_K <= 14.82855 and BP = HIGH and Age > 50.0	drugB	16	8.000	80.952

Decision tree models are popular because they have a special structure that makes it easy to explain predictions or extract decision rules

IBM SPSS Modeler

Svetlana Levitan

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Execution Environments

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Development Environments

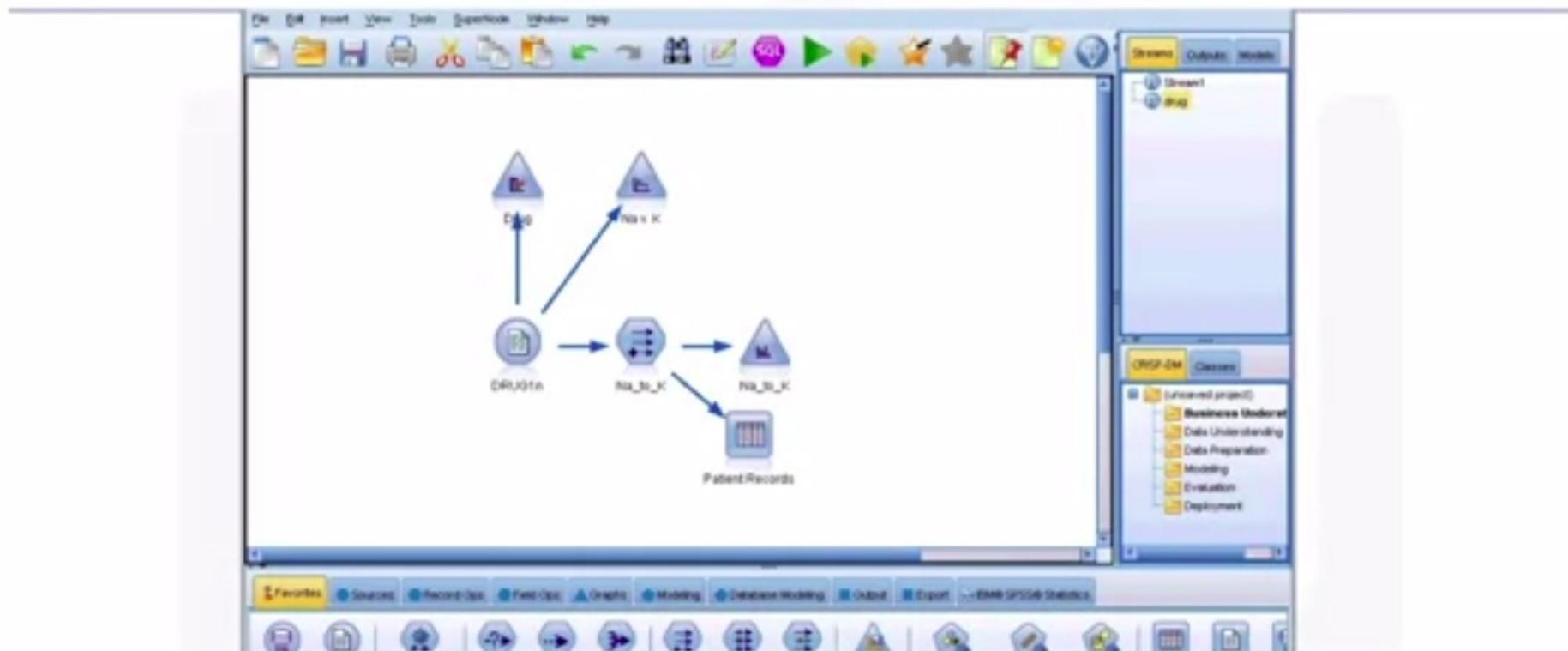
Includes data management capabilities and tools for data preparation, visualization, model building, and model deployment

IBM SPSS Modeler overview



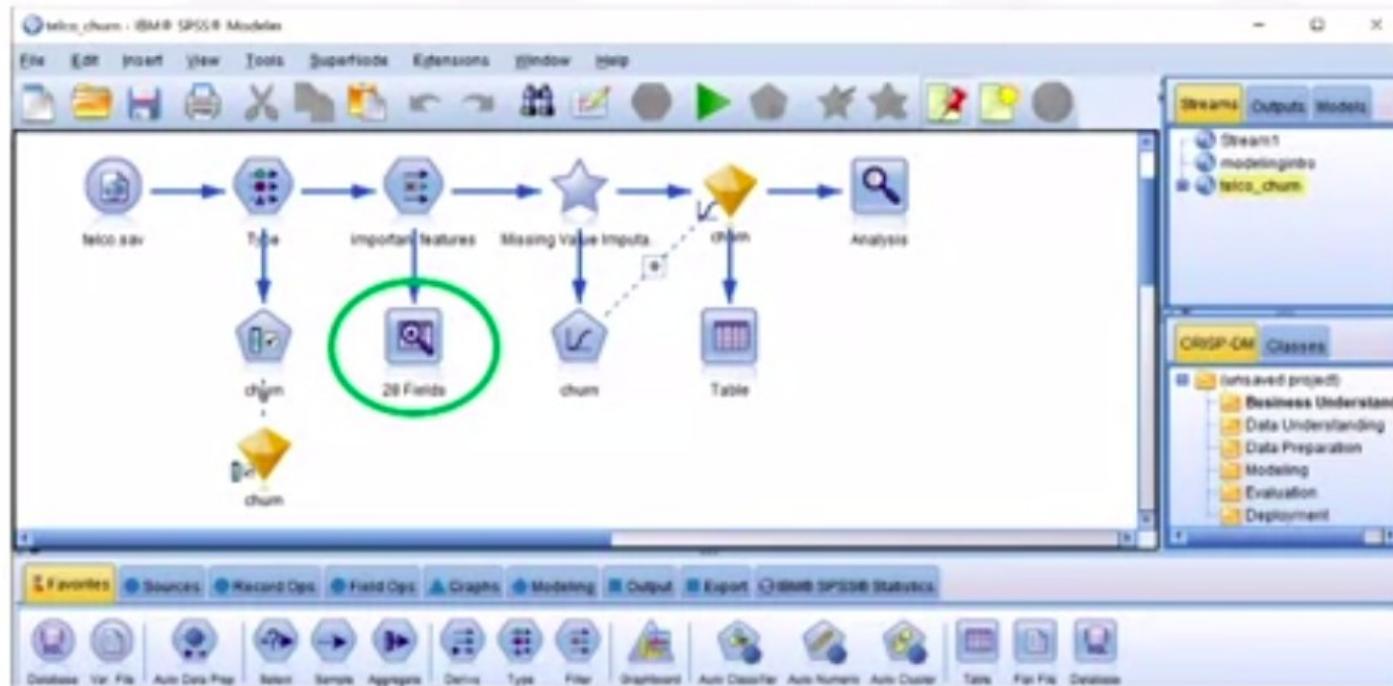
SPSS Modeler is a data mining and text analytics software application

IBM SPSS Modeler workspace



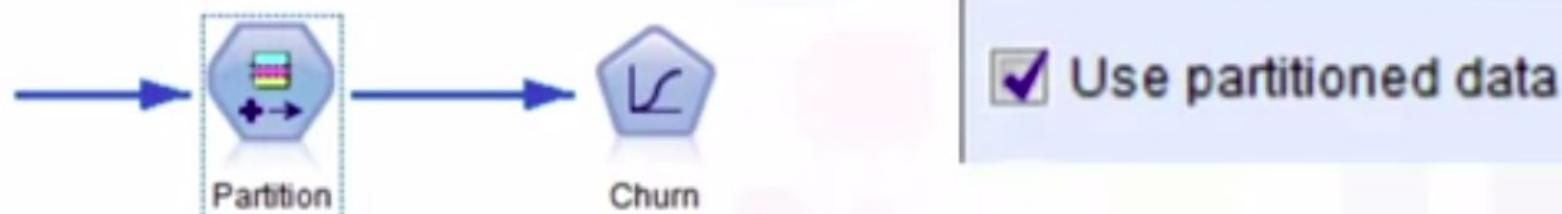
Nodes in different tabs have different shapes, with pentagons used for modeling nodes.

Data audit node



Replacing missing values of a variable with some valid values that can be selected based on domain knowledge

Always split data into training and test



Always use a Partition node to hold out a subset
of records for the purposes of testing and validation

IBM SPSS Statistics

Svetlana Levitan

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Evolved from an original product that was released in 1968

IBM Developer

SKILLS NETWORK 

Main menu items

The screenshot shows the IBM SPSS Statistics Data Editor interface. The main menu bar includes File, Edit, View, Data, Transform, Analyze, Graphs, Utilities, and Extensions. The 'File' menu is open, showing options like New, Open, Import Data (which is highlighted), Save, Save As..., Save All Data, Export, Merge File Read/Write, Manage Dataset, Display Data File Information, Cache Data..., Collect Variable Information, Stop Processor, Switch Server..., Repository, Print Preview, Print..., and Welcome Dialog... A preview window displays a table of data with columns labeled 'jobcat', 'salary', and 'salt'. The 'Edit' menu is also visible, showing Define Variable Properties..., Set Measurement Level for Unknown..., Copy Data Properties..., New Custom Attribute..., Define date and time..., Define Multiple Response Sets..., Validation (which is highlighted), Identify Duplicate Cases..., Identify Unusual Cases..., Compare Datasets..., Soft Cases..., Soft Variables..., Transpose..., Adjust String Widths Across Files, Merge Files, Restructure..., Rake Weights..., Propensity Score Matching..., Case Control Matching..., Aggregate..., Orthogonal Design, and Split into Files.

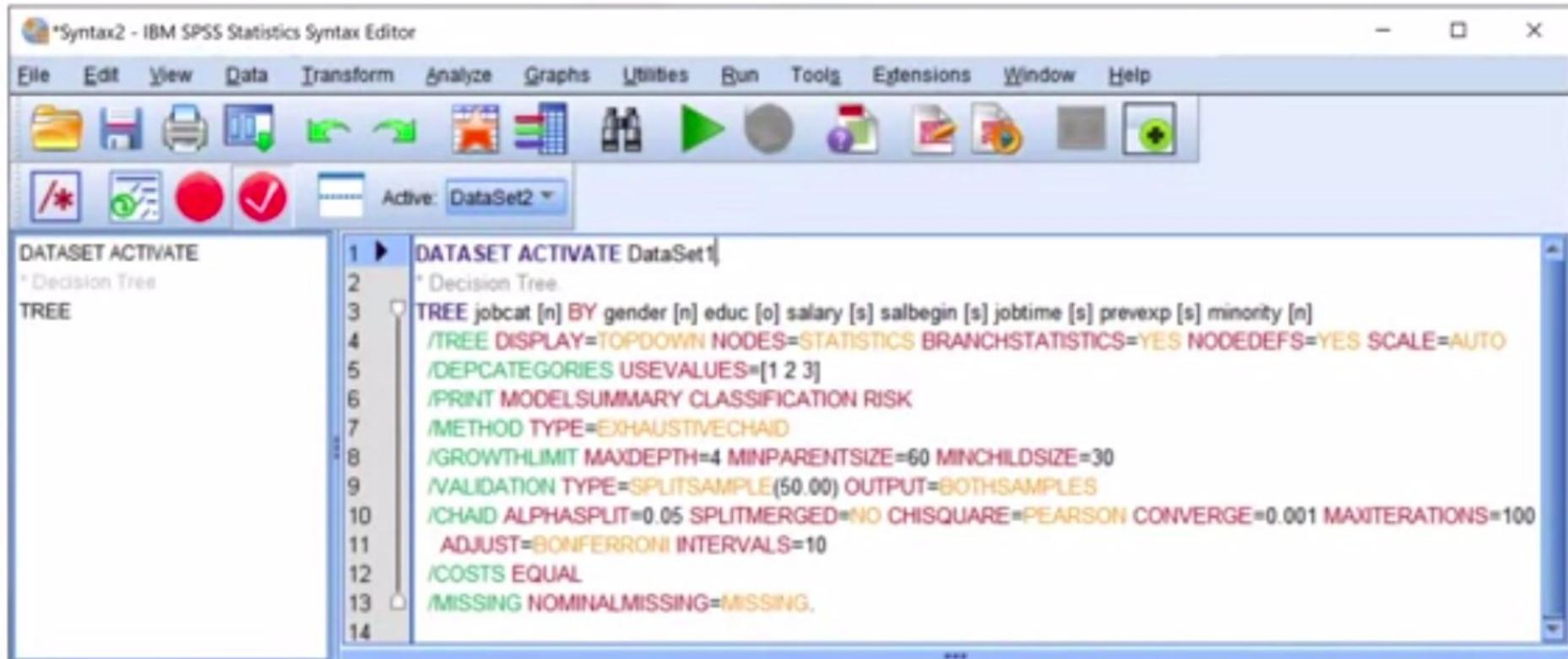
Data Validation can be performed using user-defined rules that specify the expected behavior of variable values

Graphs – chart builder



Chart Builder enables us to choose a style from the gallery and to drag required fields onto the canvas

SPSS Syntax



The screenshot shows the IBM SPSS Statistics Syntax Editor window. The menu bar includes File, Edit, View, Data, Transform, Analyze, Graphs, Utilities, Run, Tools, Extensions, Window, and Help. The toolbar contains various icons for file operations like Open, Save, Print, and Run. Below the toolbar, there are four small icons: a red asterisk (*), a green checkmark, a red circle, and a green checkmark. A dropdown menu labeled "Active: DataSet2" is open. The main area displays the following SPSS syntax code:

```
1 ► DATASET ACTIVATE DataSet1;
2 * Decision Tree
3 TREE jobcat [n] BY gender [n] educ [o] salary [s] salbegin [s] jobtime [s] prevexp [s] minority [n]
4 /TREE DISPLAY=TOPDOWN NODES=STATISTICS BRANCHSTATISTICS=YES NODEDEFS=YES SCALE=AUTO
5 /DEPCATEGORIES USEVALUES=[1 2 3]
6 /PRINT MODELSUMMARY CLASSIFICATION RISK
7 /METHOD TYPE=EXHAUSTIVECHAID
8 /GROWTHLIMIT MAXDEPTH=4 MINPARENTSIZE=60 MINCHILDSIZE=30
9 /VALIDATION TYPE=SPLITSAMPLE(50.00) OUTPUT=BOTHSAMPLES
10 /CHAID ALPHASPLIT=0.05 SPLITMERGED=NO CHISQUARE=PEARSON CONVERGE=0.001 MAXITERATIONS=100
11 ADJUST=BONFERRONI INTERVALS=10
12 /COSTS EQUAL
13 /MISSING NOMINALMISSING=MISSING.
```

SPSS syntax is a special programming language

Model Deployment with Watson Machine Learning

Svetlana Levitan

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Execution Environments

Data Asset Management

Data
Management

Data
Integration and
Transformation

Data
Visualization

Model
Building

Model
Deployment

Model
Monitoring
and
Assessment

Code Asset Management

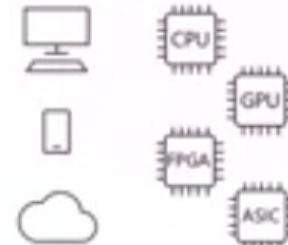
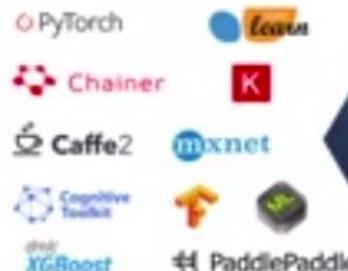
Development Environments

How to deploy models?

- Workflow solutions (tend to support only models built with the same product)

Or

- Open standards:



Some workflow solutions

- Sage Maker by Amazon
- MLFlow by Databricks
- Airflow from Airbnb, now at Apache
- Kubeflow from Google

Open standards for model deployment



Open standards for model deployment are designed to support model exchange between a wider variety of proprietary and open source models

Open standards for model deployment

Predictive Model Markup Language

Created by Data Mining Group (DMG) in 1990s

XML based, version 4.4 has 17 models + many transformations and model combination methods

Supported by > 30 companies and Open source packages

Can be generated by Watson Studio and SPSS products



Open standards for model deployment

PFA: Portable Format for Analytics from DMG

JSON based small programming language

~5-6 years old



Supported by several companies and open source packages

ONNX: Open Neural Network eXchange

PyTorch



Chainer



Caffe2

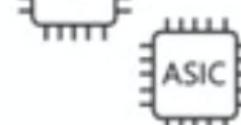
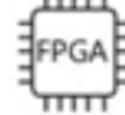
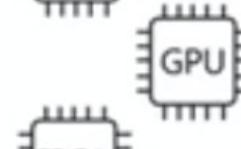
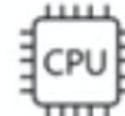


Cognitive Toolkit



XGBoost

PaddlePaddle



IBM Watson Machine Learning

- Deploy models built with Watson Studio, SPSS Modeler, many open source packages
- Support for PMML and ONNX
- Batch or online scoring

Deployment can be done using a graphical interface or Python code, and can be for online scoring through a REST API or batch scoring

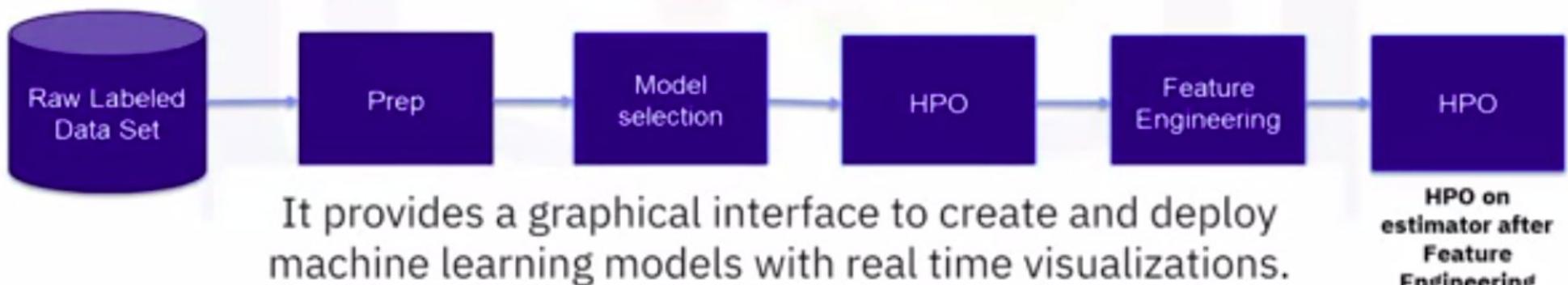
AutoAI in Watson Studio

Svetlana Levitan

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AutoAI features

To help simplify an AI lifecycle management, AutoAI automates:

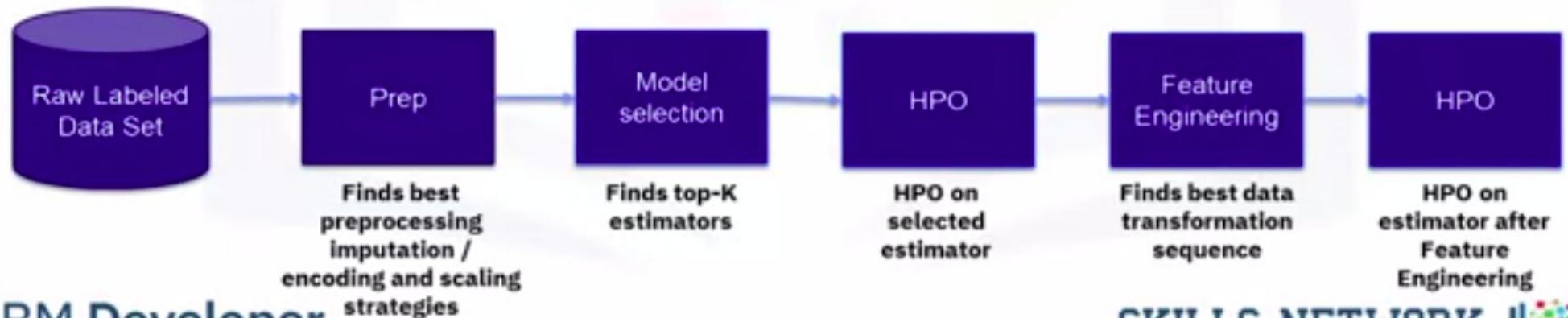


It provides a graphical interface to create and deploy machine learning models with real time visualizations.

AutoAI features

To help simplify an AI lifecycle management, AutoAI automates:

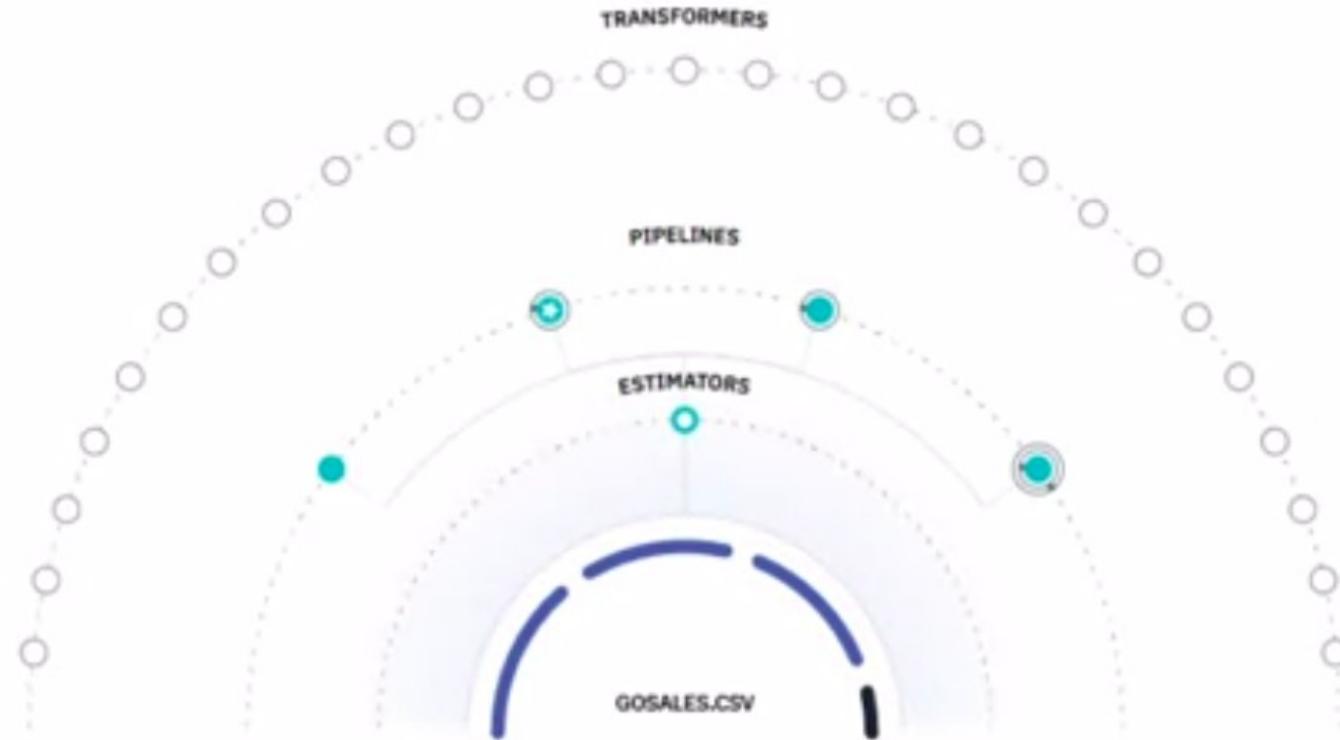
- Data preparation
- Model development
- Feature engineering
- Hyper-parameter optimization



An example of using AutoAI - data

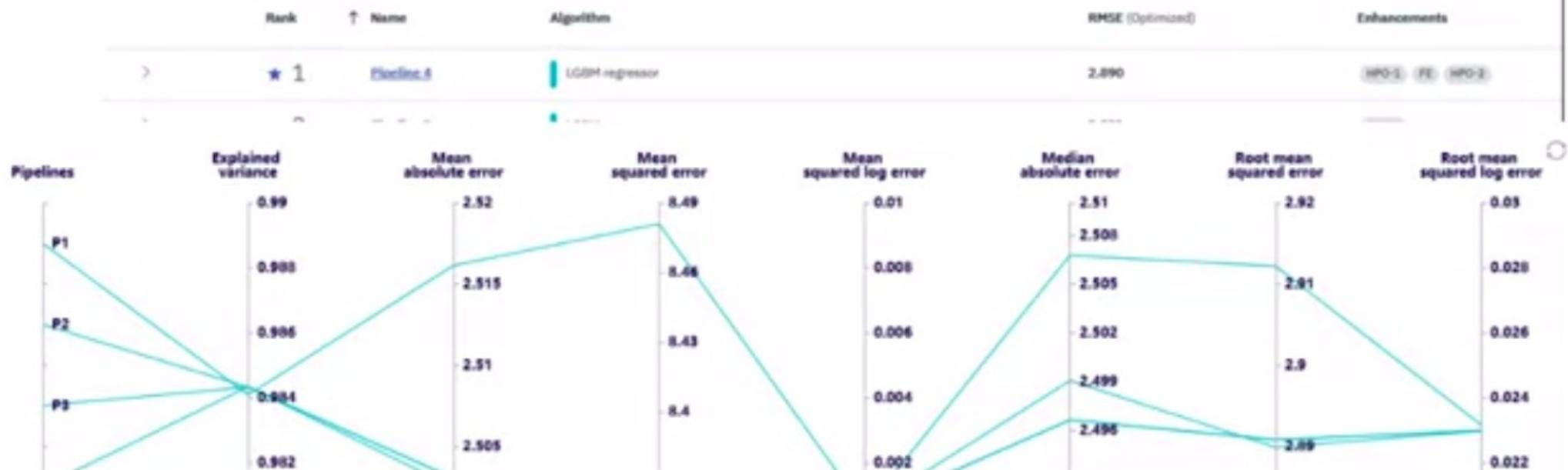
	A	B	C	D	E	F	G
1	GENDER	AGE	MARITAL_STATUS	PROFESSION	IS_TENT	PRODUCT_LINE	PURCHASE_AMOUNT
2	M	27	Single	Professional	TRUE	Camping Equipment	144.78
3	F	39	Married	Other	FALSE	Outdoor Protection	144.83
4	F	39	Married	Other	FALSE	Outdoor Protection	137.37
5	F	56	Unspecified	Hospitality	FALSE	Personal Accessories	92.61
6	M	45	Married	Retired	FALSE	Golf Equipment	119.04
7	M	45	Married	Retired	FALSE	Golf Equipment	123.76
8	F	39	Married	Other	FALSE	Outdoor Protection	142.23
9	F	49	Married	Other	FALSE	Golf Equipment	105.96
10	F	49	Married	Other	FALSE	Golf Equipment	109.21
11	M	47	Married	Retired	FALSE	Golf Equipment	117.58
12	M	47	Married	Retired	FALSE	Golf Equipment	115.03
13	M	21	Single	Retail	FALSE	Personal Accessories	112.03
14	F	66	Married	Other	FALSE	Golf Equipment	108.11
15	F	35	Married	Professional	FALSE	Golf Equipment	152.95
16	M	20	Single	Sales	TRUE	Mountaineering Equipment	124.66
17	M	20	Single	Sales	TRUE	Mountaineering Equipment	122.39

Running AutoAI to build pipelines



Pipeline comparison

Pipeline leaderboard



The pipelines can be saved as Machine Learning assets in the Watson Studio project. Then they can be deployed and tested.

Press **Esc** to exit full screen

IBM Watson OpenScale

Svetlana Levitan

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OpenScale features

- **Fairness:** Detect and mitigate model bias; automatically recommend which attributes to monitor for bias.
- **Explainability:** audit and explain model decisions.
- **Model monitoring:** Monitor model performance, help to find causes when model drift is detected, possibly trigger retraining
- **Business impact:** Correlate model metrics and business KPIs to measure business impact; actionable metrics and alerts

Insights Dashboard

Deployments Monitored

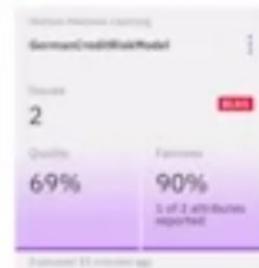
3

Quality Alerts

1

Performance Alerts

1

3 Metrics are updated hourly

IBM Watson OpenScale
can detect bias when a
model is in production

GermanCreditRiskModel: Transactions

Data Set

 Payload + Perfected Payload Training Debiased

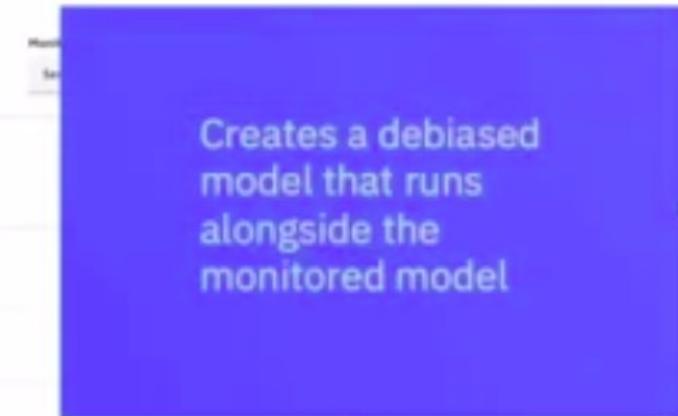
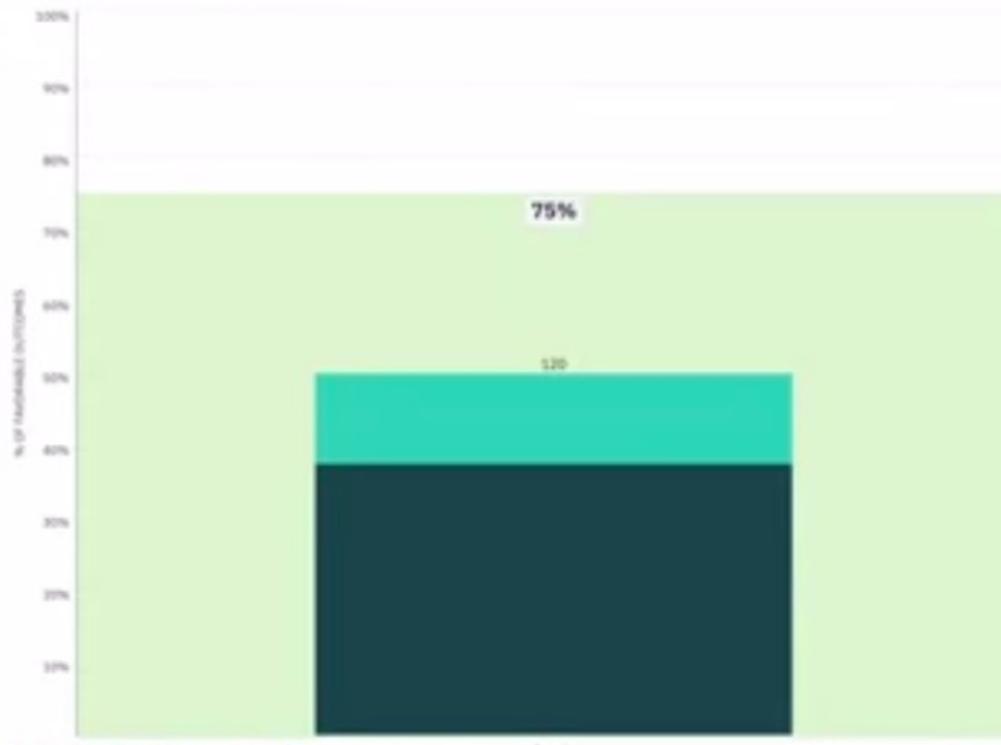
After de-bias
75% of the group female
received favorable outcomes.

Age Fairness ▲
99% **93%**
before after

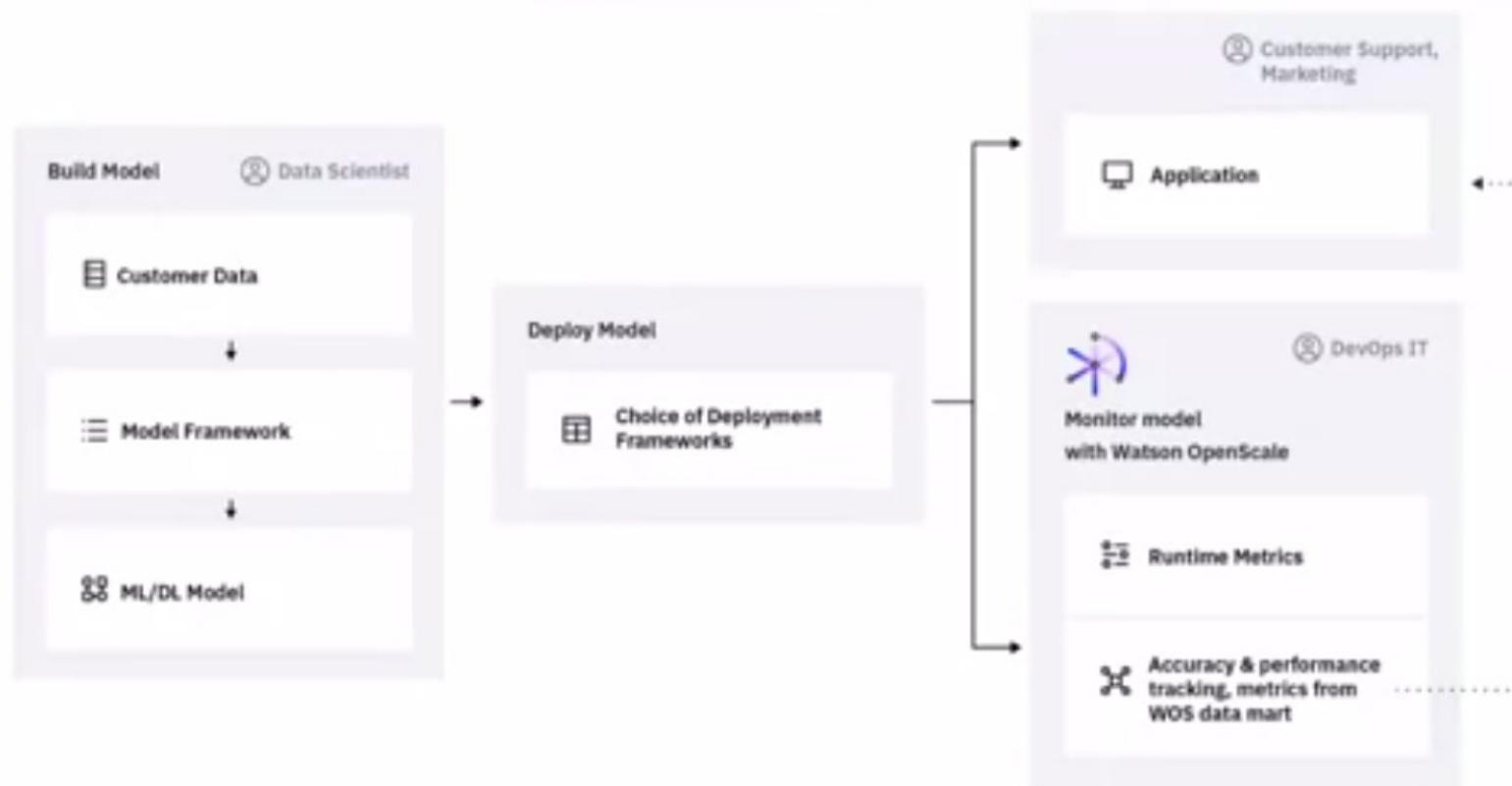
Sex Fairness
88% **100%**
before after

Favorable outcomes Unfavorable outcomes

● No Risk ● Risk



Explaining model predictions



Transactions causing drift can become training data useful in fixing drift

		Model Output	ExistingSavings	OwnsProperty	EmploymentDuration	LoanAmount	Age	Confidence	Actions
4f6a5aadd4f135c477fbfd1aecd88fae-1	Aug 26, 2019, 10:34:50 AM	No Risk	500_to_500	savings_insurance	1_to_4	2565	37	84.0%	Explain prediction
37b77be80dead43d8ecc0b7c045ba52-1	Aug 26, 2019, 09:34:50 AM	No Risk	less_100	car_other	4_to_7	4892	31	78.1%	Explain prediction
46328ea012cb40e2b92af5a260a3729e-1	Aug 26, 2019, 09:34:50 AM	No Risk	500_to_1000	car_other	4_to_7	2392	34	68.5%	Explain prediction
81aa74aa8536542788v015945870506a-1	Aug 26, 2019, 09:34:50 AM	No Risk	500_to_1000	car_other	greater_7	250	36	57.0%	Explain prediction
136cd1e2091e43b6bf3de617de71448-1	Aug 26, 2019, 09:34:50 AM	No Risk	500_to_500	unknown	4_to_7	4885	43	57.5%	Explain prediction
2566205e215147e7b6676a10208f229-1	Aug 26, 2019, 09:34:50 AM	No Risk	100_to_500	car_other	1_to_4	3355	48	60.1%	Explain prediction
4a1fb990ca336fa78ae87ed06c9951a3e-1	Aug 26, 2019, 09:34:50 AM	Risk	500_to_1000	car_other	4_to_7	3324	53	78.4%	Explain prediction
87f14c93084344036c9930152020a90c997-1	Aug 26, 2019, 09:34:50 AM	Risk	500_to_1000	car_other	4_to_7	1520	43	78.2%	Explain prediction
9c3f3f5605747619240120f69905442-1	Aug 26, 2019, 09:34:50 AM	No Risk	500_to_1000	savings_insurance	4_to_7	2074	42	57.8%	Explain prediction
13a93a1984f70412b145bb105a1933a-1	Aug 26, 2019, 08:34:50 AM	No Risk	500_to_500	car_other	1_to_4	5093	48	63.6%	Explain prediction
2e5ec0b61025412c825d3c74a36d0629-1	Aug 26, 2019, 08:34:50 AM	No Risk	less_100	car_other	1_to_4	1773	20	57.4%	Explain prediction
58a03bc3f6724ca0b422cfef555c9b291-1	Aug 26, 2019, 08:34:50 AM	No Risk	100_to_500	car_other	1_to_4	1471	33	56.7%	Explain prediction
4f6a5aadd4f135c477fbfd1aecd88fae-1	Aug 26, 2019, 08:34:50 AM	No Risk	less_100	car_other	4_to_7	2565	37	84.0%	Explain prediction



[Back](#)

Graded Quiz

Graded Quiz • 18 min

Due Jun 20, 12:29 PM IST

Congratulations! You passed!

Grade received **100%** To pass 66% or higher

[Go to next item](#)

Graded Quiz

Latest Submission Grade 100%

1. Data Refinery provides which of the following services?

1 / 1 point

- Catalog the data assets.
- Monitor for bias and model drift.
- Visualize and prepare data.
- Automatically build models.
- All of the above.

Correct

[Back](#) Graded Quiz

Due Jun 20, 12:29 PM IST

Graded Quiz • 18 min

2. IBM SPSS Modeler includes what kind of models?

1 / 1 point

- Classification models (for data with a categorical target).
- Regression models (for data with a continuous target).
- Clustering models (for data with no target variables).
- Other kinds of models.
- All of the above.

 Correct

3. Open Neural Network eXchange (ONNX) was originally created for what models?

1 / 1 point

- Regression models
- Clustering models
- Deep learning models.
- Decision trees
- Support Vector Machines (SVM).

GitHub - Program...

[Back](#) Graded Quiz

Graded Quiz • 18 min

Due Jun 20, 12:29 PM IST

4. Fill in the blank: If you'd like to schedule a notebook in Watson Studio to run at a different time, you can create a(n) _____.

1 / 1 point

- markdown cell
- asset
- job
- API

 Correct

5. Fill in the blank: In the _____ tab you can define the hardware size and software configuration for the runtime associated with Watson Studio tools such as Notebook.

1 / 1 point

- environments
- overview
- settings
- assets

 Correct

GitHub - Progra...

[Back](#)

Graded Quiz

Graded Quiz • 18 min

Due Jun 20, 12:29 PM IST

- environments
- overview
- settings
- assets

 **Correct**

6. Fill in the blank: It's a best practice to remove or replace _____ before publishing to GitHub.

1 / 1 point

- charts
- markdown text
- code cells
- credentials

 **Correct**

Practice Quiz – Watson Studio

Q1. Fill in the blank: In Watson Studio, a _____ is how you organize your resources to achieve a particular goal.

Resources can include data, collaborators, and analytic assets like notebooks and models.

- project

Q2. Fill in the blank: It's a best practice to remove or replace _____ before publishing to GitHub.

- credentials

Q3. Which of the following do you need to create in order to publish a notebook to your GitHub repository?

- Access token

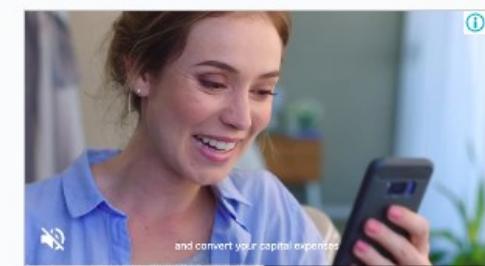
Q4. Fill in the blank: If you'd like to schedule a notebook in Watson Studio to run at a different time you can create a(n)

_____.

- job

Q5. Fill in the blank: On the environments tab you can define the _____.

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Q5. Fill in the blank: On the environments tab you can define the _____.

- a. Runtime configuration for flow editor.

- All of the above

Q6. Fill in the blank: When sharing a read only version of a notebook, you can choose to share _____.

- All of the above

Q7. Fill in the blank: When working in a Jupyter Notebook, before returning to a project, it's important to _____.

- Save your notebook

Q8. Fill in the blank: Before running a notebook, it's a best practice to _____ to describe what the notebook does.

- Insert a cell at the top of the notebook

Q9. Fill in the blank: In the _____ tab you can define the hardware size and software configuration for the runtime associated with Watson Studio tools such as notebooks.

- environments

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- All of the above

Q7. Fill in the blank: When working in a Jupyter Notebook, before returning to a project, it's important to _____.

- Save your notebook

Q8. Fill in the blank: Before running a notebook, it's a best practice to _____ to describe what the notebook does.

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Q9. Fill in the blank: In the _____ tab you can define the hardware size and software configuration for the runtime associated with Watson Studio tools such as notebooks.

- environments

Q10. Fill in the blank: IBM Cloud uses _____ as a way for you to organize your account resources in customizable groupings so that you can quickly assign users access to more than one resource at a time.

- Resource groups

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 🔍

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Tushar Raha

Tools for Data Science > Week 4 > Submit Your Work and Grade Your Peers

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Create and Share Your Jupyter Notebook

Instructions: Create and Share Your Jupyter Notebook
20 min

Ungraded External Tool:
Optional: Peer Graded Assignment
1h

Peer-graded Assignment:
Submit Your Work and Grade Your Peers
18 min

Review Your Peers: Submit Your Work and Grade Your Peers

Final Exam

Digital Badge

Instructions

My submission

Discussions

Project Title

My Jupyter Notebook on IBM Watson Studio

URL of the publicly viewable notebook, as shared on IBM Watson Studio **(2 marks)**

https://eu-de.dataplatform.cloud.ibm.com/analytics/notebooks/v2/b362a9a2-93ca-4ff9-919d-47fb69d2f8dc/view?access_token=...

Title

optional

Caption

optional

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Due Jun 27, 12:29 PM IST
00:25:45 remaining

Final Exam

Total points 12

- 1.** SQL is what type of query language?

1 point

- Cypher
 - Database
 - Contextual
 - Access

- 2.** Is Keras a machine learning or deep learning library for Python?

1 point

- Yes
 - No

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Graded Quiz • 36 min

Due Jun 27, 12:29 PM IST
00:25:37 remaining

3. What type of model would you use if you wanted to find the relationship between a set of variables?

1 point

- Regression model
- Clustering model
- Classification model

4. Which of the following are true about Data Asset Management?

1 point

- Also known as data governance.
- A crucial part of data science at the enterprise level.
- To be done effectively data must be versioned and annotated with meta data.
- All of the above.

5. What open source tool was developed and built by statisticians?

1 point

Back Final Exam

Graded Quiz • 36 min

Due Jun 27, 12:29 PM IST

00:25:32 remaining

5. What open source tool was developed and built by statisticians?

1 point

- RStudio
- Spyder
- VSCode
- Notepad
- Jupyter Notebooks / JupyterLab

6. Jupyter Notebooks is the tool most R developers use.

1 point

- No
- Yes

7. Which of the following functions does RStudio provide?

1 point

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Graded Quiz • 36 min

Due Jun 27, 12:29 PM IST
00:25:28 remaining

7. Which of the following functions does RStudio provide?

1 point

- Creating relationships between data tables.
- Documenting R code applications.
- Storing data in tables.
- Editing and execution of R code.

8. What does the acronym "Jupyter" mean in Jupyter Notebooks?

1 point

- Javascript, Python and R
- Julia, Python and Ruby
- Julia, Python and R
- Julia, PHP and R

Back Final Exam

Graded Quiz • 36 min

Due Jun 27, 12:29 PM IST

⌚ 00:25:25 remaining

9. What type of assets does the Watson Knowledge Catalog let you discover in Watson Studio?

1 point

- Data Refinery
- Modeler Flows
- AutoAI
- Machine Learning

10. What are some of the Data Refinery abilities when working with data?

1 point

- Analyzes data but takes longer to prepare
- Can only analyze small amounts of data at a time
- Analyzes and transforms data quickly
- Analyzes data but cannot be saved for future use

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00:25:21 remaining

11. What type of node is used to prepare the data for modeling in Modeler flows?

1 point

- A modeling node
- Auto data prep node
- A type node
- A data source node
- All of the above

12. What software package is used specifically to analyze data related to social sciences?

1 point

- Modelers
- Charts
- SPSS
- Graphical user interface